ELSEVIER

Journal of Magnetism and Magnetic Materials 222 (2000) 386–388

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Author index to volume 222

Aly, S.H., A theoretical study on size-dependent magnetic properties of Gd particles in the 4–300 K temperature range 368
Anjali Devi, S.P., see Jothimani, S. 1
Aranda, G.R., see Chubykalo, O.A. 314
Atkinson, R., see Loze, M.K. 379

Baberschke, K., see Wilhelm, F. 163
Baran, S., M. Hofmann, J. Leciejewicz, B. Penc, M. Ślaski, A. Szytuła and A. Zygmunt, Magnetic properties and magnetic structures of RAgSi (R = Gd–Er) compounds 277
Benayad, N., A. Fathi and R. Zerhouni, The diluted mixed-spin transverse Ising system with longitudinal crystal field interactions 355
Bistué, G., see González, O.J. 199
Boeve, H., see Girgis, E. 133
Bonder, M.J., E.M. Kirkpatrick, T. Martin, S.-J. Kim, R.D. Rieke and D.L. Leslie-Pelecky, Grain size effects on the magnetic properties of chemically synthesized Ni:Ni_3C nanocomposites 70
Bordin, G., G. Buttino, A. Cecchetti and M. Poppi, Peculiar behavior of the magneto-impedance in Fe-based amorphous wires under torsion 257
Bovensiepen, U., see Wilhelm, F. 163
Brückl, H., see Luciński, T. 327
Bärner, K., see Kasper, N.V. 28
Buttino, G., see Bordin, G. 257
Byszewski, P., see Zubov, E. 89

Cao, Q.Q., see Tang, T. 110
Castaño, E., see González, O.J. 199
Ceballos, G., see Wilhelm, F. 163
Cecchetti, A., see Bordin, G. 257
Celotta, R.J., see Pierce, D.T. 13
Chabanenko, V., see Zubov, E. 89
Chang, Y.L., see Xu, S.Y. 182
Chattoraj, I., see Panda, A.K. 263
Chérif, S.M., Y. Roussigné, C. Dugautier and P. Moch, Spin waves in magnetic wires: a Brillouin study 337
Chubykalo, O.A., J.M. González, G.R. Aranda and J. González, Field and thermally activated demagnetization processes in ultra-thin films with in-plane anisotropy: occurrence of non-equivalent reversal modes 314
Chung, Y.C., see Yang, J.H. 65
Claici, F., see Mălăescu, I. 8
Clegg, W.W., see Loze, M.K. 379
Clementyev, E., see Murasik, A. 101
Czerkas, S., see Luciński, T. 327
Czjzek, G., see Tomala, K. 285
Czopnik, A., see Murasik, A. 101

Date, S.K., see Joy, P.A. 33
Davies, A.D., see Pierce, D.T. 13
Díaz-Castañón, S., see Faloh Gandarilla, J.C. 271
De Boeck, J., see Girgis, E. 133
Derzhko, O., J. Richter and O. Zaburannyi, Local magnetic properties of periodic nonuniform spin-$\frac{1}{2}$ XX chains 207
Dimitrov, D.V., K. Subramanian, D. Phinney and S. Gangopadhyay, Finite element and Monte Carlo modeling of the electrical and thermal properties of high areal density MR read-back heads 347
Dörr, K., see Walter, T. 175
Du, Y., see Yang, S. 97
Du, Y.W., see Tang, T. 110
Dugautier, C., see Chérif, S.M. 337

Eckert, D., see Walter, T. 175

Faloh Gandarilla, J.C., S. Díaz-Castañón and N. Suárez Almodovar, Activation volume and coercivity in aluminum-substituted Pb–M hexaferrites 271
Fathi, A., see Benayad, N. 355
Fähnle, M., see Komelj, M. L245
Fus, D., see Szytuła, A. 47

Gabor, L., see Mălăescu, I. 8
Gamo, K., see Kimura, T. 79
Gangopadhyay, S., see Dimitrov, D.V. 347
García-Palacios, J.L., see Jönsson, P. 219
García, J.M., see Raposo, V. 227
Girgis, E., H. Boeve, J. De Boeck, J. Schelten, P. Rottländer, H. Kohlstedt and P. Grünberg, Dielectric breakdown of lithographically patterned tunnel junctions prepared by UV oxidation method 133
Gładczuk, L., see Zubov, E. 89

0304-8853/00/$ - see front matter © 2000 Elsevier Science B.V. All rights reserved.
PII: S0304-8853(00)00983-5

ELSEVIER

Journal of Magnetism and Magnetic Materials 222 (2000) 386–388

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Author index to volume 222

Aly, S.H., A theoretical study on size-dependent magnetic properties of Gd particles in the 4–300 K temperature range 368
Anjali Devi, S.P., see Jothimani, S. 1
Aranda, G.R., see Chubykalo, O.A. 314
Atkinson, R., see Loze, M.K. 379

Baberschke, K., see Wilhelm, F. 163
Baran, S., M. Hofmann, J. Leciejewicz, B. Penc, M. Ślaski, A. Szytuła and A. Zygmunt, Magnetic properties and magnetic structures of RAgSi (R = Gd–Er) compounds 277
Benayad, N., A. Fathi and R. Zerhouni, The diluted mixed-spin transverse Ising system with longitudinal crystal field interactions 355
Bistué, G., see González, O.J. 199
Boeve, H., see Girgis, E. 133
Bonder, M.J., E.M. Kirkpatrick, T. Martin, S.-J. Kim, R.D. Rieke and D.L. Leslie-Pelecky, Grain size effects on the magnetic properties of chemically synthesized Ni:Ni_3C nanocomposites 70
Bordin, G., G. Buttino, A. Cecchetti and M. Poppi, Peculiar behavior of the magneto-impedance in Fe-based amorphous wires under torsion 257
Bovensiepen, U., see Wilhelm, F. 163
Brückl, H., see Luciński, T. 327
Bärner, K., see Kasper, N.V. 28
Buttino, G., see Bordin, G. 257
Byszewski, P., see Zubov, E. 89

Cao, Q.Q., see Tang, T. 110
Castaño, E., see González, O.J. 199
Ceballos, G., see Wilhelm, F. 163
Cecchetti, A., see Bordin, G. 257
Celotta, R.J., see Pierce, D.T. 13
Chabanenko, V., see Zubov, E. 89
Chang, Y.L., see Xu, S.Y. 182
Chattoraj, I., see Panda, A.K. 263
Chérif, S.M., Y. Roussigné, C. Dugautier and P. Moch, Spin waves in magnetic wires: a Brillouin study 337
Chubykalo, O.A., J.M. González, G.R. Aranda and J. González, Field and thermally activated demagnetization processes in ultra-thin films with in-plane anisotropy: occurrence of non-equivalent reversal modes 314
Chung, Y.C., see Yang, J.H. 65
Claici, F., see Mălăescu, I. 8
Clegg, W.W., see Loze, M.K. 379
Clementyev, E., see Murasik, A. 101
Czerkas, S., see Luciński, T. 327
Czjzek, G., see Tomala, K. 285
Czopnik, A., see Murasik, A. 101

Date, S.K., see Joy, P.A. 33
Davies, A.D., see Pierce, D.T. 13
Díaz-Castañón, S., see Faloh Gandarilla, J.C. 271
De Boeck, J., see Girgis, E. 133
Derzhko, O., J. Richter and O. Zaburannyi, Local magnetic properties of periodic nonuniform spin-$\frac{1}{2}$ XX chains 207
Dimitrov, D.V., K. Subramanian, D. Phinney and S. Gangopadhyay, Finite element and Monte Carlo modeling of the electrical and thermal properties of high areal density MR read-back heads 347
Dörr, K., see Walter, T. 175
Du, Y., see Yang, S. 97
Du, Y.W., see Tang, T. 110
Dugautier, C., see Chérif, S.M. 337

Eckert, D., see Walter, T. 175

Faloh Gandarilla, J.C., S. Díaz-Castañón and N. Suárez Almodovar, Activation volume and coercivity in aluminum-substituted Pb–M hexaferrites 271
Fathi, A., see Benayad, N. 355
Fähnle, M., see Komelj, M. L245
Fus, D., see Szytuła, A. 47

Gabor, L., see Mălăescu, I. 8
Gamo, K., see Kimura, T. 79
Gangopadhyay, S., see Dimitrov, D.V. 347
García-Palacios, J.L., see Jönsson, P. 219
García, J.M., see Raposo, V. 227
Girgis, E., H. Boeve, J. De Boeck, J. Schelten, P. Rottländer, H. Kohlstedt and P. Grünberg, Dielectric breakdown of lithographically patterned tunnel junctions prepared by UV oxidation method 133
Gładczuk, L., see Zubov, E. 89

0304-8853/00/$ - see front matter © 2000 Elsevier Science B.V. All rights reserved.
PII: S0304-8853(00)00983-5

González, J., see Chubykalo, O.A. 314
González, J.M., see Raposo, V. 227
González, J.M., see Chubykalo, O.A. 314
González, O.J., G. Bistué, E. Castaño and F.J. Gracia, Room temperature colossal magnetoresistance in nanocrystalline $La_{0.67}Sr_{0.33}MnO_3$ sputtered thin films 199
Goodenough, J.B., see Yin, H.Q. 115
Gorobets, S.V., Yu.A. Legenkii and I.A. Melnichuk, Break-up of Ni microparticle clusters in a magnetic field 159
Gracia, F.J., see González, O.J. 199
Grünberg, P., see Girgis, E. 133
Gu, K.M., see Tang, T. 110

Hamad, N., see Kasper, N.V. 28
Han-min, J., see Kim, Y.B. 39
Harris, I.R., see Mottram, R.S. 305
Hecker, M., see Walter, T. 175
Hicken, R.J., see Wu, J. 189
Hönig, T., see Kasper, N.V. 28
Hofmann, M., see Baran, S. 277
Huang, X.J., see Xu, S.Y. 182

Jezierski, A., see Szytuła, A. 47
Jin, Z., see Yang, S. 97
Jönsson, P., T. Jonsson, J.L. García-Palacios and P. Svedlindh, Nonlinear dynamic susceptibilities of interacting and noninteracting magnetic nanoparticles 219
Jonsson, T., see Jönsson, P. 219
Jothimani, S. and S.P. Anjali Devi, Oblique magnetic field effects over stability in superposed viscous ferrofluids 1
Joy, P.A. and S.K. Date, Effect of sample shape on the zero-field-cooled magnetization behavior: comparative studies on $NiFe_2O_4$, $CoFe_2O_4$ and $SrFe_{12}O_{19}$ 33

Kandaurova, G.S., see Vlasova, N.I. 138
Kasper, N.V., T. Hönig, N. Hamad, K. Bärner, G.H. Rao, J.R. Sun, I.O. Troyanchuk and D.D. Khalyavin, Effect of Fe-subsitution on charge ordering in Ca-rich manganites $Pr_{1-x}Ca_xMnO_3$ 28
Kasuya, T., Excitonic Wigner crystal and high T_c ferromagnetism in RB_6 233
Khalyavin, D.D., see Kasper, N.V. 28
Kim, C.S., see Kim, M.J. 86
Kim, M.J., see Yang, J.H. 65
Kim, M.J., Y.B. Kim, C.S. Kim and T.K. Kim, Magnetocrystalline anisotropy of $Pr_2Fe_{14}B$ 86
Kim, S.-J., see Bonder, M.J. 70
Kim, T.K., see Yang, J.H. 65
Kim, T.K., see Kim, M.J. 86
Kim, Y.-B., see Yang, J.H. 65
Kim, Y.B. and J. Han-min, Magnetocrystalline anisotropy of $Er_2Fe_{14}B$ and $Tm_2Fe_{14}B$ at 4.2 K 39
Kim, Y.B., see Kim, M.J. 86
Kim, Y.B., see Ryu, K.S. 128
Kimura, T., F. Wakaya, J. Yanagisawa, Y. Yuba and K. Gamo, Magnetization process and resistance jumps in a submicron-scale cross-shaped Co wire 79
Kirkpatrick, E.M., see Bonder, M.J. 70
Klabunde, K.J., see Taketomi, S. 54
Kmieć, R., see Tomala, K. 285
Kochkanjan, R., see Zubov, E. 89
Kohlstedt, H., see Girgis, E. 133
Komelj, M. and M. Fähnle, Magnetoelastic effects in ultrathin epitaxial Ni films: an ab initio study L245
Kompotiatis, L., see Moraitakis, E. 168
Kowalska, E., see Zubov, E. 89
Kruk, R., see Tomala, K. 285

Leciejewicz, J., see Baran, S. 277
Legenkii, Yu.A., see Gorobets, S.V. 159
Lehmann, M., see Walter, T. 175
Leslie-Pelecky, D.L., see Bonder, M.J. 70
Li, Z.W., see Xu, S.Y. 182
Lim, S.L., see Xu, S.Y. 182
Loze, M.K., C.D. Wright, R. Atkinson and W.W. Clegg, The thermal performance of the MAMMOS disk structure 379
Luciński, T., S. Czerkas, H. Brückl and G. Reiss, Growth and properties of Co/Al–O_x/Ni(80)Fe(20) trilayers monitored in-situ during deposition process 327

Makar, J.M. and B.K. Tanner, The effect of plastic deformation and residual stress on the permeability and magnetostriction of steels 291
Martin, T., see Bonder, M.J. 70
Melnichuk, I.A., see Gorobets, S.V. 159
Mitra, A., see Panda, A.K. 263
Mălăescu, I., L. Gabor, F. Claici and N. Ştefu, Study of some magnetic properties of ferrofluids filtered in magnetic field gradient 8
Müller, K.-H., see Walter, T. 175
Moch, P., see Chérif, S.M. 337
Moore, J.R., see Wu, J. 189
Moraitakis, E., L. Kompotiatis, M. Pissas and D. Niarchos, Permeability measurements of permalloy films with a broad band stripline technique 168
Mottram, R.S., A.J. Williams and I.R. Harris, Blending additions of aluminium and cobalt to $Nd_{16}Fe_{76}B_8$ milled powder to produce sintered magnets 305
Murasik, A., A. Czopnik, E. Clementyev and J. Schefer, Crystal field in $ErGa_3$ – a neutron spectroscopy study 101
Murthy, S.R., A study of ultrasonic velocity and attenuation on polycrystalline YIG 121
Murugesan, R., see Padiyan, D.P. 251
Muthukrishnan, C., see Padiyan, D.P. 251

Nahm, S.H., see Ryu, K.S. 128
Nenkov, K., see Walter, T. 175
Ney, A., see Wilhelm, F. 163
Niarchos, D., see Moraitakis, E. 168
Nie, H.B., see Xu, S.Y. 182

Ong, C.K., see Xu, S.Y. 182

Padiyan, D.P., C. Muthukrishnan and R. Murugesan, EPR of Cu(II) in sarcosine cadmium chloride: probe into dopant site – symmetry and copper–sarcosine interaction 251

Panda, A.K., I. Chattoraj and A. Mitra, Structural and soft magnetic properties of $Fe_{73.5}Nb_3M_1Si_{13.5}B_9$ (M = Cu, Mn, Pt) 263
Penc, B., see Szytuła, A. 47
Penc, B., see Baran, S. 277
Phinney, D., see Dimitrov, D.V. 347
Pierce, D.T., A.D. Davies, J.A. Stroscio, D.A. Tulchinsky, J. Unguris and R.J. Celotta, Non-collinear exchange coupling in Fe/Mn/Fe(001): insight from scanning tunneling microscopy 13
Pissas, M., see Moraitakis, E. 168
Poppi, M., see Bordin, G. 257
Poulopoulos, P., see Wilhelm, F. 163

Rao, G.H., see Kasper, N.V. 28
Raposo, V., J.M. Garcia, J.M. González and M. Vázquez, Long-range magnetostatic interactions in arrays of nanowires 227
Reiss, G., see Luciński, T. 327
Richter, J., see Derzhko, O. 207
Rieke, R.D., see Bonder, M.J. 70
Rottländer, P., see Girgis, E. 133
Roussigné, Y., see Chérif, S.M. 337
Ryu, K.S., see Yang, J.H. 65
Ryu, K.S., S.H. Nahm, Y.B. Kim, K.M. Yu and D. Son, Dependence of magnetic properties on isothermal heat treatment time for 1Cr–1Mo–0.25 V steel 128

Schefer, J., see Murasik, A. 101
Schelten, J., see Girgis, E. 133
Scherz, A., see Wilhelm, F. 163
Schultz, L., see Walter, T. 175
Shchegoleva, N.N., see Vlasova, N.I. 138
Ślaski, M., see Baran, S. 277
Son, D., see Ryu, K.S. 128
Sorensen, C.M., see Taketomi, S. 54
Ştefu, N., see Mălăescu, I. 8
Stroscio, J.A., see Pierce, D.T. 13
Subramanian, K., see Dimitrov, D.V. 347
Sugawara, K., see Yin, H.Q. 115
Sun, J.R., see Kasper, N.V. 28
Suárez Almodovar, N., see Faloh Gandarilla, J.C. 271
Svedlindh, P., see Jönsson, P. 219
Szytuła, A., A. Jezierski, B. Penc and D. Fus, Valence band studies of the RTX (R = Pr, Nd; T = Cu, Ag, Au; X = Ge, Sn) compounds 47
Szytuła, A., see Baran, S. 277

Taketomi, S., C.M. Sorensen and K.J. Klabunde, Preparation of yttrium–iron-garnet nanocrystals dispersed in nanosize-pore glass 54
Tang, S., see Yang, S. 97
Tang, T., K.M. Gu, Q.Q. Cao, D.H. Wang, S.Y. Zhang and Y.W. Du, Magnetocaloric properties of Ag-substituted perovskite-type manganites 110
Tanner, B.K., see Makar, J.M. 291
Tokman, I.D. and G.A. Vugalter, Influence of an AC magnetic field on magnetization tunneling in high-spin molecules 375
Tomala, K., R. Kmieć, R. Kruk and G. Czjzek, Magnetic order in $Gd_{1-x}Ce_xCu_6$, a ^{155}Gd Mössbauer study 285
Troyanchuk, I.O., see Kasper, N.V. 28
Tulchinsky, D.A., see Pierce, D.T. 13

Unguris, J., see Pierce, D.T. 13

Vlasova, N.I., G.S. Kandaurova and N.N. Shchegoleva, Effect of the polytwinned microstructure parameters on magnetic domain structure and hysteresis properties of the CoPt-type alloys 138
Vugalter, G.A., see Tokman, I.D. 375
Vázquez, M., see Raposo, V. 227

Wakaya, F., see Kimura, T. 79
Walter, T., K. Dörr, K.-H. Müller, D. Eckert, K. Nenkov, M. Hecker, M. Lehmann and L. Schultz, Magnetic and electrical properties of coherently grown low-strain $La_{0.7}Ca_{0.3}MnO_3$ films 175
Wang, D.H., see Tang, T. 110
Wende, H., see Wilhelm, F. 163
Wilhelm, F., U. Bovensiepen, A. Scherz, P. Poulopoulos, A. Ney, H. Wende, G. Ceballos and K. Baberschke, Manipulation of the Curie temperature and the magnetic moments of ultrathin Ni and Co films by Cu-capping 163
Williams, A.J., see Mottram, R.S. 305
Wright, C.D., see Loze, M.K. 379
Wu, J., J.R. Moore and R.J. Hicken, Optical pump-probe studies of the rise and damping of ferromagnetic resonance oscillations in a thin Fe film 189

Xu, S.Y., X.J. Huang, C.K. Ong, S.L. Lim, Y.L Chang, Z. Yang, Z.W. Li and H.B. Nie, Yttria-stabilized zirconia: a suitable substrate for *c*-axis preferred Nd–Fe–B thin films fabricated by pulsed-laser deposition 182

Yanagisawa, J., see Kimura, T. 79
Yang, J.H., Y.-B. Kim, K.S. Ryu, M.J. Kim, Y.C. Chung and T.K. Kim, Enhancement of permeability of Co-based amorphous alloy by two-step cooling method 65
Yang, S., H. Zhu, D. Yu, Z. Jin, S. Tang and Y. Du, Preparation and magnetic property of Fe nanowire array 97
Yang, Z., see Xu, S.Y. 182
Yin, H.Q., J.-S. Zhou, K. Sugawara and J.B. Goodenough, Production and characteristics of $La_{0.67}Sr_{0.33}MnO_3/La_{0.85}Sr_{0.15}MnO_3/La_{0.67}Sr_{0.33}MnO_3$ tri-layer tunneling magnetoresistance device 115
Yu, D., see Yang, S. 97
Yu, K.M., see Ryu, K.S. 128
Yuba, Y., see Kimura, T. 79

Zaburannyi, O., see Derzhko, O. 207
Zerhouni, R., see Benayad, N. 355
Zhang, S.Y., see Tang, T. 110
Zhou, J.-S., see Yin, H.Q. 115
Zhu, H., see Yang, S. 97
Zubov, E., P. Byszewski, V. Chabanenko, E. Kowalska, L. Gładczuk and R. Kochkanjan, Superparamagnetic behavior of $C_{60}Fe$ 89
Zygmunt, A., see Baran, S. 277

ELSEVIER

Journal of Magnetism and Magnetic Materials 222 (2000) 389–390

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Subject index to volume 222

Activation volume 271
Admixture coefficients 251
Alkoxide method 54
Aluminium 305
Aluminum substitution effects 271
Anisotropy constant 86
Anodic aluminum oxide 97
Arrays of nanowires 227
Atomic force microscopy 327
Attenuation 121

Blocking 89
Brillouin light scattering 337

Carbide 128
Charge ordering 28
Chemical synthesis 70
Cluster 89, 159
Co-based amorphous alloy 65
Cobalt 305
Coercive force 128
Coercivity mechanisms 271
Controlled pore glass 54
Cooperative domain structure 138
Critical fields 159
Crystal field 101
Crystal field interactions 355
Crystallization 263
Curie temperature 163

Damping 189
Density functional electron theory L245
Dipolar magnetic interaction 227
Domain structure 168
Doping 28, 285
DSC 110

Elastic constants 121
Electrodeposition 227
Electronic structure 47
Epitaxial strain 175
Epitaxially grown magnetic films L245
EPR 251

Exchange coupling 13
Exchange interaction 79
Excitonic state 233

Fe and its alloys 182
Fe-rich amorphous wire 257
FEM 347
Ferrimagnetics 33
Ferrites 33
Ferrofluids 1, 8
Ferromagnetic resonance 189
Ferromagnetic thin films 327
Ferromagnetism 233
Film growth 13
Filtration in field gradient 8
First-order phase transition 110
FMR 168
Forming field 159

Gadolinium 368
Garnets 121
GMR head 347
Grain size 121

Half-metallic ferromagnet 115
Hexaferrites 271
High permeability 65
High-density magnetooptical information storage 54
High-spin molecules 375
Hysteresis 227

In-situ conductance measurements 327
Intermetallics 263

Junction resistance 347

$L1_0$ alloys 138
Laser deposition 182
Longitudinal recording media 97
Low-field magnetoresistance 199

Maghemite 219
Magnetic anisotropy 39
Magnetic anisotropy L245
Magnetic device 79
Magnetic entropy change 110
Magnetic field 159
Magnetic films 163
Magnetic films and multilayers 182
Magnetic hysteresis 138
Magnetic moments 163
Magnetic multilayer 13
Magnetic nanocomposites 70
Magnetic nanoparticle-glass composite 54
Magnetic order 285
Magnetic ordering 101
Magnetic particles 159
Magnetic permeability 128
Magnetic properties 263
Magnetic property 97
Magnetic recording 115
Magnetic recording heads 133
Magnetic refrigerants 110
Magnetic structure 277
Magnetic susceptibility 277, 368
Magnetic viscosity 271
Magnetic wires 337
Magnetisation processes 327
Magnetism – nanostructure relationship 70
Magnetization 28, 89, 175, 207, 368
Magnetization measurements 277
Magneto-crystalline anisotropy constant 121
Magneto-optical Kerr effect 189
Magneto-optical recording 379
Magnetocrystalline anisotropy 33, 86
Magnetoresistance 79, 115
Magnetostriction 291
Magnetostrictive strain L245
Magnets 305
MAMMOS 379
Manganese-oxide perovskite 115
Manganites 28, 175
METGLAS 2714A 65
Micromagnetic modeling 314
Mixed spins 355

0304-8853/00/$ - see front matter © 2000 Elsevier Science B.V. All rights reserved.
PII: S0304-8853(00)00984-7

MO coefficients 251
Monte Carlo 314, 347
Mössbauer spectroscopy 285
MRAM 133
Multilevel packing 159

Nanocrystalline 263
Nanocrystalline structure 199
Nanoparticles 219
Nanostructured magnetism 70
Nanostructures 227
Nanowire 97
Neutron diffraction 277
Neutron scattering 101
Neutron spectroscopy 101
Nickel carbide 70
Nondestructive testing 128
Nonlinear dynamic susceptibility 219
Nonlinear magnetoelastic coupling coefficients L245

Oblique magnetic field 1
Optical recording 379

Patterned films 337
p–d mixing 233
Periodically modulated exchange interactions 207
Permalloy films 168
Permanent magnets 182
Permeability 168
Perovskite manganites 110
Perpendicular recording media 97
Planar Hall effect 79
Plastic deformation 291
Polaron 233
Powder blending 305
Protective overlayers 163
Pump-probe spectroscopy 189

Rabi's oscillations 375
Ramp speed 133
Rare earths 101
Rare-earth compounds 39, 277
Resistivity 28, 263
RHEED 13
Rhombic symmetry 251
Roton 233

Saturation magnetization 8, 86
SEMPA 13
Shape anisotropy 33
Shf 251
Shielding material 65
Sintering 305
Site dilution 355
Size-dependent properties 368
Soft magnetic material 65
Spin tunneling 115
Spin waves 337
Spin-$\frac{1}{2}$ XX chain in a transverse field 207
Sputtering 199
Stability 1
Steels 291
STM 13
Strong-coupling approach 207
Structure of supercluster 159
Sublattice anisotropy 39
Submicron structures 337
Substrate 182
Superparamagnetism 89, 368
Surfaces 175
Susceptibility 207

Temperature 89, 347
Temperature distribution 379
Ternary rare earth intermetallics 47
Thermal effects 314
Thin film growth 327
Thin films 79
Thirsty glass 54
TMR 133
Torsional stress 257
Transverse field 355
Tunneling of magnetization 375
Twinned microstructure 138
Two-step annealing 65

Ultrasonic velocity 121
Uniaxial anisotropy 86
UV oxidation 133

Vickers hardness 128
Viscosity 1
Vycor glass 54

Wigner glass 233

X-ray absorption spectra 163
XPS 47

Yttrium–iron-garnet 54

Zero-field-cooled magnetization 33